

Contributors to This Issue

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Thomas D. Dudderar, B.S.M.E., 1957, Lehigh University; Sc.M., 1961, New York University; Ph.D., 1966, Brown University; Bell Laboratories, 1966—. Mr. Dudderar works in the Materials Science and Engineering Division. He has published research papers on mechanical properties of materials, photoelasticity, and holographic interferometry and has been awarded patents on mechanical testing techniques and stress analysis using holographic interferometry.

Douglas W. Hill, B.S., 1964, California Institute of Technology; M.S. (E.E.), 1965, Stanford University; Ph.D. (Mathematics), 1973, University of New Mexico; U.S. Air Force 1965–1969; Bell Laboratories 1973–1976; Motorola 1976—. While at Bell Laboratories, Mr. Hill studied the accuracy of traffic engineering procedures and developed new methods for trunk network administration. Member, SIAM, IMS, IEEE.

Terrence A. Lenahan, S.B., S.M., 1964, Massachusetts Institute of Technology; Ph.D., 1970, University of Pennsylvania; Bell Laboratories 1970—. Mr. Lenahan is presently concerned with the mathematical analysis of multipair communication cables. Member, SIAM, American Mathematical Society, American Association for the Advancement of Science.

Benjamin F. Logan, Jr., B.S. (Electrical Engineering), 1946, Texas Technological College; M.S., 1951, Massachusetts Institute of Technology; Eng.D.Sc. (Electrical Engineering), 1965, Columbia University; Bell Laboratories, 1956—. While at MIT, Mr. Logan was a research as-

stant in the Research Laboratory of Electronics, investigating characteristics of high-power electrical discharge lamps. Also at MIT he engaged in analogue computer development at the Dynamic Analysis and Control Laboratory. From 1955 to 1956 he worked for Hycon-Eastern, Inc., where he was concerned with the design of airborne power supplies. He joined Bell Laboratories as a member of the Visual and Acoustics Research Department, where he was concerned with the processing of speech signals. Currently, he is a member of the Mathematical Research Department. Member, Sigma Xi, Tau Beta Pi.

James McKenna, B.Sc. (Mathematics), 1951, Massachusetts Institute of Technology; Ph.D. (Mathematics), 1961, Princeton University; Bell Laboratories, 1960—. Mr. McKenna has done research in quantum mechanics, electromagnetic theory, and statistical mechanics. He has recently been engaged in the study of nonlinear partial differential equations that arise in solid-state device work, in the theory of stochastic differential equations, and the theory of elastic wave propagation.

Richard H. Moseley, Associate Degree (EE), 1953, Connecticut State Technical Institute; BS(EE), 1965, MS(EE), 1969, Newark College of Engineering; Bell Laboratories, 1953—. Mr. Moseley worked on various defense systems until joining the Single Sideband Microwave Radio Department in 1970. He is currently engaged in single sideband system design.

Siegfried B. Pirkau, A.A.S., New Hampshire Vocational Technical College (NHVTC), 1969; Bell Laboratories, 1969—. Mr. Pirkau's first assignment was work involved with computer-simulated Picturephone® coding. In 1971 he began work on SSB radio in the Repeater Evaluation Group, where he became involved with the design and construction of special test equipment.

Judith B. Seery, B.A., 1968, College of St. Elizabeth; M.S., 1972, New York University; Bell Laboratories, 1968—. Ms. Seery does computing and analysis in the Mathematics and Statistics Research Center. She has recently participated in problems in fiber optics, minimal spanning networks, and multidimensional scaling. Member, Mathematical Association of America, Association for Women in Mathematics.

Peter G. Simpkins, Diploma in Technology, 1957, University of London; M.S., 1960, California Institute of Technology; Ph.D., 1965, Imperial College, London; AVCO Corporation 1965–1968; Bell Laboratories, 1968—. Mr. Simpkins is currently working in the Materials Research Laboratory. He has published articles on gas dynamics, fluid mechanics, underwater acoustics, and fracture mechanics. During a leave of absence in 1974, he was Senior Research Fellow at the University of Southampton.

Richard B. Swerdlow, B.S.E.E., 1960, University of Pennsylvania (Moore School); M.S.E.E., 1962, Massachusetts Institute of Technology; Bell Laboratories, 1963—. Mr. Swerdlow has supervised groups in the analysis of antiballistic missile systems and a single-sideband (SSB) radio transmission system. He is currently working on special problems in carrier transmission. Mr. Swerdlow has been awarded two patents.

